# Search in ENZYME for: decaprenyl diphosphate synthetase

## Release 27.7, January 2003, and updates up to 21-Jan-2003

Please choose one of the following entries:

2.5.1.31 Di-trans-poly-cis-decaprenylcistransferase.
(AN: Di-trans-poly-cis-undecaprenyl-diphosphate synthase.
Undecaprenyl pyrophosphate synthetase.
Undecaprenyl pyrophosphate synthase.
UPP synthetase.
Undecaprenyl-diphosphate synthase.
Bactoprenyl-diphosphate synthase.)

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**End of Result Set**

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L4: Entry 1 of 1 File: EPAB Aug 16, 2001

PUB-NO: EP001123979A1
DOCUMENT-IDENTIFIER: EP 1123979 A1
TITLE: PROCESS FOR PRODUCING COENZYME Q 10?

PUBN-DATE: August 16, 2001

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MATSUDA, HIDEYUKI | JP |
| KAWAMUKAI, MAKOTO | JP |
| YAJIMA, KAZUYOSHI | JP |
| IKENAKA, YASUHIRO | JP |
| HASEGAWA, JUNZO | JP |
| TAKAHASHI, SATOMI | JP |

ASSIGNEE-INFORMATION:

| NAME | COUNTRY |
|---|---|
| KANEGAFUCHI CHEMICAL IND | JP |

APPL-NO: EP00954944
APPL-DATE: August 24, 2000

PRIORITY-DATA: JP23756199A (August 24, 1999)

INT-CL (IPC): C12 N 15/54; C12 N 9/12; C12 N 1/21; C12 P 7/66
EUR-CL (EPC): C12P007/66; C12N009/10

ABSTRACT:

CHG DATE=20010904 STATUS=O> The present invention has for its object to isolate a gene coding for the enzyme synthesizing coenzyme Q10 side chain synthase from a fungal strain of the genus Saitoella and exploit it to advantage for the efficient microbial production of coenzyme Q10. The present invention provides; a DNA having the nucleotide sequence shown under SEQ ID NO:1; a DNA having a nucleotide sequence derived from the nucleotide sequence of SEQ ID NO:1 by deletion, addition, insertion and/or substitution of one or a plurality of nucleotides and coding for a protein having decaprenyl diphosphate synthase activity; a DNA which hybridizes with the DNA having the nucleotide sequence of SEQ ID NO:1 under stringent conditions and codes for a protein having decaprenyl diphosphate synthase activity.

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**Search Results** - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20010019838 A1

L2: Entry 1 of 5 File: PGPB Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010019838
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010019838 A1

TITLE: Decaprenyl diphosphate synthetase gene

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Obata, Shusei | Aichi | | JP | |
| Nishino, Tokuzo | Miyagi | | JP | |
| Koyama, Tanetoshi | Miyagi | | JP | |
| Sato, Yoshihiro | Aichi | | JP | |

US-CL-CURRENT: 435/133; 435/183, 435/320.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

2. Document ID: US 6413761 B2

L2: Entry 2 of 5 File: USPT Jul 2, 2002

US-PAT-NO: 6413761
DOCUMENT-IDENTIFIER: US 6413761 B2

TITLE: Decaprenyl diphosphate synthetase gene

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

3. Document ID: US 6410280 B1

L2: Entry 3 of 5 File: USPT Jun 25, 2002

US-PAT-NO: 6410280
DOCUMENT-IDENTIFIER: US 6410280 B1

TITLE: Decaprenyl diphosphate synthetase gene

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

4. Document ID: US 6225097 B1

L2: Entry 4 of 5 File: USPT May 1, 2001

US-PAT-NO: 6225097
DOCUMENT-IDENTIFIER: US 6225097 B1

TITLE: Decaprenyl diphosphate synthetase gene

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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5. Document ID: EP 1227155 A1 WO 200127286 A1 AU 200076860 A

L2: Entry 5 of 5 File: DWPI Jul 31, 2002

DERWENT-ACC-NO: 2001-282036
DERWENT-WEEK: 200257


TITLE: Producing ubiquinone-10 for use as antioxidant, comprises using microorganisms with reduced geranylgeranyl transferase and increased decaprenyl diphosphate synthetase and hydroxybenzoic acid decaprenyl transferase activity

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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| Terms | Documents |
|---|---|
| decaprenyl diphosphate synthetase | 5 |

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**Search Results** - Record(s) 1 through 10 of 37 returned.

☐ 1. Document ID: US 20020197605 A1

L3: Entry 1 of 37 File: PGPB Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197605
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020197605 A1

TITLE: Novel Polynucleotides

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Nakagawa, Satoshi | Tokyo | | JP | |
| Mizoguchi, Hiroshi | Tokyo | | JP | |
| Ando, Seiko | Tokyo | | JP | |
| Hayashi, Mikiro | Tokyo | | JP | |
| Ochiai, Keiko | Tokyo | | JP | |
| Yokoi, Haruhiko | Tokyo | | JP | |
| Tateishi, Naoko | Tokyo | | JP | |
| Senoh, Akihiro | Tokyo | | JP | |
| Ikeda, Masato | Tokyo | | JP | |
| Ozaki, Akio | Hofu-shi | | JP | |

US-CL-CURRENT: 435/6; 435/287.2, 435/91.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Image

☐ 2. Document ID: US 20020160447 A1

L3: Entry 2 of 37 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160447
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160447 A1

TITLE: Ups (ugc)

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Huang, Jianzhong | Schwenksville | PA | US | |
| Jiang, Xinhe | Royersford | PA | US | |
| McDevitt, Damien | Berwyn | PA | US | |
| Traini, Christopher M. | Media | PA | US | |

US-CL-CURRENT: 435/69.1; 435/252.33, 435/320.1, 435/325, 530/350, 536/23.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 3. Document ID: US 20020103338 A1

L3: Entry 3 of 37 File: PGPB Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103338
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020103338 A1

TITLE: Staphylococcus aureus polynucleotides and polypeptides

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Choi, Gil H. | Rockville | MD | US | |

US-CL-CURRENT: 530/350; 435/252.3, 435/320.1, 435/325, 435/69.1, 536/23.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 4. Document ID: US 20010051359 A1

L3: Entry 4 of 37 File: PGPB Dec 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010051359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010051359 A1

TITLE: GERANYL DIPHOSPHATE SYNTHASE GENES

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| OHTO, CHIKARA | SENDAI-SHI | CA | JP | |
| NARITA, KEISHI | SENDAI-SHI | | JP | |
| NISHINO, TOKUZO | SENDAI-SHI | | JP | |
| OHNUMA, SHIN-ICHI | LA JOLLA | | US | |

US-CL-CURRENT: 435/69.1; 435/193, 435/252.3, 435/320.1, 435/41, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 5. Document ID: US 20010019838 A1

L3: Entry 5 of 37 File: PGPB Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010019838
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010019838 A1

TITLE: Decaprenyl diphosphate synthetase gene

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Obata, Shusei | Aichi | | JP | |
| Nishino, Tokuzo | Miyagi | | JP | |
| Koyama, Tanetoshi | Miyagi | | JP | |
| Sato, Yoshihiro | Aichi | | JP | |

US-CL-CURRENT: 435/133; 435/183, 435/320.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 6. Document ID: US 6461842 B1

L3: Entry 6 of 37 File: USPT Oct 8, 2002

US-PAT-NO: 6461842
DOCUMENT-IDENTIFIER: US 6461842 B1

TITLE: Process for producing coenzyme Q10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 7. Document ID: US 6413761 B2

L3: Entry 7 of 37 File: USPT Jul 2, 2002

US-PAT-NO: 6413761
DOCUMENT-IDENTIFIER: US 6413761 B2

TITLE: Decaprenyl diphosphate synthetase gene

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 8. Document ID: US 6410280 B1

L3: Entry 8 of 37 File: USPT Jun 25, 2002

US-PAT-NO: 6410280
DOCUMENT-IDENTIFIER: US 6410280 B1

TITLE: Decaprenyl diphosphate synthetase gene

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 9. Document ID: US 6395525 B2

L3: Entry 9 of 37 File: USPT May 28, 2002

US-PAT-NO: 6395525

DOCUMENT-IDENTIFIER: US 6395525 B2

TITLE: Geranyl diphosphate synthase genes

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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10. Document ID: US 6316216 B1

L3: Entry 10 of 37 File: USPT Nov 13, 2001

US-PAT-NO: 6316216
DOCUMENT-IDENTIFIER: US 6316216 B1

TITLE: Mutated prenyl diphosphate synthases

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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| Terms | Documents |
|---|---|
| $decaprenyl diphosphate (synthetase or synthase) | 37 |

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**Search Results** - Record(s) 11 through 20 of 37 returned.

☐ 11. Document ID: US 6287810 B1

L3: Entry 11 of 37 File: USPT Sep 11, 2001

US-PAT-NO: 6287810
DOCUMENT-IDENTIFIER: US 6287810 B1

TITLE: Polynucleotides encoding an undercaprenyl diphosphate synthase of staphylococcus aureus

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

☐ 12. Document ID: US 6261802 B1

L3: Entry 12 of 37 File: USPT Jul 17, 2001

US-PAT-NO: 6261802
DOCUMENT-IDENTIFIER: US 6261802 B1

TITLE: Ups (ugc)

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

☐ 13. Document ID: US 6225097 B1

L3: Entry 13 of 37 File: USPT May 1, 2001

US-PAT-NO: 6225097
DOCUMENT-IDENTIFIER: US 6225097 B1

TITLE: Decaprenyl diphosphate synthetase gene

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

☐ 14. Document ID: US 6225096 B1

L3: Entry 14 of 37 File: USPT May 1, 2001

US-PAT-NO: 6225096
DOCUMENT-IDENTIFIER: US 6225096 B1

TITLE: Mutant prenyl diphosphate synthase, DNA encoding mutant prenyl diphosphate synthase and process for producing mutant prenyl phosphate synthase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

☐ 15. Document ID: US 6183968 B1

L3: Entry 15 of 37 File: USPT Feb 6, 2001

US-PAT-NO: 6183968
DOCUMENT-IDENTIFIER: US 6183968 B1

TITLE: Composition for the detection of genes encoding receptors and proteins associated with cell proliferation

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

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☐ 16. Document ID: US 6174715 B1

L3: Entry 16 of 37 File: USPT Jan 16, 2001

US-PAT-NO: 6174715
DOCUMENT-IDENTIFIER: US 6174715 B1

TITLE: Prenyl diphosphate synthetase genes

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

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☐ 17. Document ID: US 6103488 A

L3: Entry 17 of 37 File: USPT Aug 15, 2000

US-PAT-NO: 6103488
DOCUMENT-IDENTIFIER: US 6103488 A

TITLE: Method of forming ubiquinone-10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

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☐ 18. Document ID: US 6071733 A

L3: Entry 18 of 37 File: USPT Jun 6, 2000

US-PAT-NO: 6071733
DOCUMENT-IDENTIFIER: US 6071733 A

TITLE: Method of making recombinant enzyme

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

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☐ 19. Document ID: US 6040165 A

L3: Entry 19 of 37 File: USPT Mar 21, 2000

US-PAT-NO: 6040165
DOCUMENT-IDENTIFIER: US 6040165 A

TITLE: Mutant prenyl diphosphate synthase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

20. Document ID: US 5935832 A

L3: Entry 20 of 37 File: USPT Aug 10, 1999

US-PAT-NO: 5935832
DOCUMENT-IDENTIFIER: US 5935832 A

TITLE: Farnesyl diphosphate synthase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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| Terms | Documents |
|---|---|
| $decaprenyl diphosphate (synthetase or synthase) | 37 |

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**Search Results** - Record(s) 21 through 30 of 37 returned.

21. Document ID: JP 2002191367 A

L3: Entry 21 of 37 File: JPAB Jul 9, 2002

PUB-NO: JP02002191367A
DOCUMENT-IDENTIFIER: JP 2002191367 A
TITLE: METHOD FOR PRODUCING COENZYME Q10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

22. Document ID: JP 11056372 A

L3: Entry 22 of 37 File: JPAB Mar 2, 1999

PUB-NO: JP411056372A
DOCUMENT-IDENTIFIER: JP 11056372 A
TITLE: PRODUCTION OF UBIQUINONE-10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Clip Img | Image

23. Document ID: JP 10057072 A

L3: Entry 23 of 37 File: JPAB Mar 3, 1998

PUB-NO: JP410057072A
DOCUMENT-IDENTIFIER: JP 10057072 A
TITLE: PRODUCTION OF UBIQUINONE-10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Clip Img | Image

24. Document ID: WO 2052017 A1

L3: Entry 24 of 37 File: EPAB Jul 4, 2002

PUB-NO: WO002052017A1
DOCUMENT-IDENTIFIER: WO 2052017 A1
TITLE: PROCESS FOR PRODUCING COENZYME Q10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

25. Document ID: EP 1123979 A1

L3: Entry 25 of 37 File: EPAB Aug 16, 2001

PUB-NO: EP001123979A1

DOCUMENT-IDENTIFIER: EP 1123979 A1
TITLE: PROCESS FOR PRODUCING COENZYME Q 10?

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 26. Document ID: EP 1070759 A1

L3: Entry 26 of 37 File: EPAB Jan 24, 2001

PUB-NO: EP001070759A1
DOCUMENT-IDENTIFIER: EP 1070759 A1
TITLE: PROCESS FOR PRODUCING COENZYME Q10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 27. Document ID: JP 2002191367 A WO 200252017 A1

L3: Entry 27 of 37 File: DWPI Jul 9, 2002

DERWENT-ACC-NO: 2002-500767
DERWENT-WEEK: 200259


TITLE: Microbial production of coenzyme Q10 by transformants transferred with fungal decaprenyl diphosphate synthase gene, on industrial scale for application in drugs

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 28. Document ID: WO 200240682 A1

L3: Entry 28 of 37 File: DWPI May 23, 2002

DERWENT-ACC-NO: 2002-427097
DERWENT-WEEK: 200245


TITLE: Decaprenyl diphosphate synthase gene of Rhodotorula origin for efficient preparation of coenzyme Q10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

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☐ 29. Document ID: WO 200226933 A2 AU 200196359 A

L3: Entry 29 of 37 File: DWPI Apr 4, 2002

DERWENT-ACC-NO: 2002-416480
DERWENT-WEEK: 200252


TITLE: Substantially pure polypeptides having e.g., 1-deoxyxylulose-5-phosphate synthase activity, useful for the production of isoprenoids, especially CoQ(10)

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments  KWIC | Draw Desc | Image

30. Document ID: EP 1227155 A1 WO 200127286 A1 AU 200076860 A

L3: Entry 30 of 37 File: DWPI Jul 31, 2002

DERWENT-ACC-NO: 2001-282036
DERWENT-WEEK: 200257


TITLE: Producing ubiquinone-10 for use as antioxidant, comprises using microorganisms with reduced geranylgeranyl transferase and increased decaprenyl diphosphate synthetase and hydroxybenzoic acid decaprenyl transferase activity

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw. Desc | Image

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| Terms | Documents |
|---|---|
| $decaprenyl diphosphate (synthetase or synthase) | 37 |

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**Search Results** - Record(s) 31 through 37 of 37 returned.

☐ 31. Document ID: WO 200114567 A1 EP 1123979 A1 JP 2001061478 A AU 200067270 A NO 200101995 A

L3: Entry 31 of 37 File: DWPI Mar 1, 2001

DERWENT-ACC-NO: 2001-202937
DERWENT-WEEK: 200147


TITLE: DNA encoding a protein having decaprenyl diphosphate synthase activity and microorganism for producing coenzyme Q10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 32. Document ID: US 20020119512 A1 WO 200068426 A1 US 6287810 B1

L3: Entry 32 of 37 File: DWPI Aug 29, 2002

DERWENT-ACC-NO: 2001-016105
DERWENT-WEEK: 200259


TITLE: New undecaprenyl diphosphate synthase polypeptides and polynucleotides, useful for screening antimicrobial compounds and treating or diagnosing microbial diseases e.g. toxic shock syndrome or wound infection

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 33. Document ID: US 20020160447 A1 WO 200023575 A1 US 6261802 B1

L3: Entry 33 of 37 File: DWPI Oct 31, 2002

DERWENT-ACC-NO: 2000-339678
DERWENT-WEEK: 200274


TITLE: Isolated polypeptide of the ups (undecaprenyl diphosphate synthase) family is used for treating microbial infections

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 34. Document ID: JP 2002527049 W WO 200021544 A1

L3: Entry 34 of 37 File: DWPI Aug 27, 2002

DERWENT-ACC-NO: 2000-350043
DERWENT-WEEK: 200271

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TITLE: New Streptococcus pneumoniae undecaprenyl diphosphate synthase gene useful for treatment of diseases such as bacterial infections

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 35. Document ID: JP 11178590 A US 6413761 B2 US 6225097 B1 US 20010019838 A1 US 6410280 B1

L3: Entry 35 of 37 File: DWPI Jul 6, 1999

DERWENT-ACC-NO: 1999-437316
DERWENT-WEEK: 200248
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TITLE: New deca-prenyl di:phosphate synthase gene - useful for preparation of ubiquinone-10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 36. Document ID: JP 11056372 A US 6103488 A

L3: Entry 36 of 37 File: DWPI Mar 2, 1999

DERWENT-ACC-NO: 1999-222385
DERWENT-WEEK: 200041
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TITLE: Formation of ubiquinone-10 - by transformation of E. coli with a decaprenyl diphosphate synthase (DDS) gene derived from a photosynthetic microbe

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 37. Document ID: JP 10057072 A

L3: Entry 37 of 37 File: DWPI Mar 3, 1998

DERWENT-ACC-NO: 1998-210404
DERWENT-WEEK: 199819
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TITLE: Production of highly pure ubiquinone-10 - by recombinant microorganism comprising gene encoding deca:prenyl di:phosphate synthase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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| Terms | Documents |
|---|---|
| $decaprenyl diphosphate (synthetase or synthase) | 37 |

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| NEWS 3 | Apr 09 | BEILSTEIN: Reload and Implementation of a New Subject Area |
| NEWS 4 | Apr 09 | ZDB will be removed from STN |
| NEWS 5 | Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and IFIUDB |
| NEWS 6 | Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS |
| NEWS 7 | Apr 22 | BIOSIS Gene Names now available in TOXCENTER |
| NEWS 8 | Apr 22 | Federal Research in Progress (FEDRIP) now available |
| NEWS 9 | Jun 03 | New e-mail delivery for search results now available |
| NEWS 10 | Jun 10 | MEDLINE Reload |
| NEWS 11 | Jun 10 | PCTFULL has been reloaded |
| NEWS 12 | Jul 02 | FOREGE no longer contains STANDARDS file segment |
| NEWS 13 | Jul 22 | USAN to be reloaded July 28, 2002; saved answer sets no longer valid |
| NEWS 14 | Jul 29 | Enhanced polymer searching in REGISTRY |
| NEWS 15 | Jul 30 | NETFIRST to be removed from STN |
| NEWS 16 | Aug 08 | CANCERLIT reload |
| NEWS 17 | Aug 08 | PHARMAMarketLetter(PHARMAML) - new on STN |
| NEWS 18 | Aug 08 | NTIS has been reloaded and enhanced |
| NEWS 19 | Aug 19 | Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN |
| NEWS 20 | Aug 19 | IFIPAT, IFICDB, and IFIUDB have been reloaded |
| NEWS 21 | Aug 19 | The MEDLINE file segment of TOXCENTER has been reloaded |
| NEWS 22 | Aug 26 | Sequence searching in REGISTRY enhanced |
| NEWS 23 | Sep 03 | JAPIO has been reloaded and enhanced |
| NEWS 24 | Sep 16 | Experimental properties added to the REGISTRY file |
| NEWS 25 | Sep 16 | CA Section Thesaurus available in CAPLUS and CA |
| NEWS 26 | Oct 01 | CASREACT Enriched with Reactions from 1907 to 1985 |
| NEWS 27 | Oct 21 | EVENTLINE has been reloaded |
| NEWS 28 | Oct 24 | BEILSTEIN adds new search fields |
| NEWS 29 | Oct 24 | Nutraceuticals International (NUTRACEUT) now available on STN |
| NEWS 30 | Oct 25 | MEDLINE SDI run of October 8, 2002 |
| NEWS 31 | Nov 18 | DKILIT has been renamed APOLLIT |
| NEWS 32 | Nov 25 | More calculated properties added to REGISTRY |
| NEWS 33 | Dec 02 | TIBKAT will be removed from STN |
| NEWS 34 | Dec 04 | CSA files on STN |
| NEWS 35 | Dec 17 | PCTFULL now covers WP/PCT Applications from 1978 to date |
| NEWS 36 | Dec 17 | TOXCENTER enhanced with additional content |
| NEWS 37 | Dec 17 | Adis Clinical Trials Insight now available on STN |
| NEWS 38 | Dec 30 | ISMEC no longer available |
| NEWS 39 | Jan 13 | Indexing added to some pre-1967 records in CA/CAPLUS |
| NEWS 40 | Jan 21 | NUTRACEUT offering one free connect hour in February 2003 |
| NEWS 41 | Jan 21 | PHARMAML offering one free connect hour in February 2003 |

| | |
|---|---|
| NEWS EXPRESS | January 6 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002 |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:56:55 ON 24 JAN 2003

=> **s ?decaprenyl diphosphate (synthase or synthatase)**
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> **fil .eliz**

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.84 | 0.84 |

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FILE 'ESBIOBASE' ENTERED AT 16:59:04 ON 24 JAN 2003
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FILE 'WPIDS' ENTERED AT 16:59:04 ON 24 JAN 2003
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=> **s ?decaprenyl diphosphate (synthase or synthatase)**
MISSING OPERATOR 'PHOSPHATE (SYNTHASE'
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> **s ?decaprenyl diphosphate (synthase or synthatase)**
MISSING OPERATOR 'PHOSPHATE (SYNTHASE'
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> **s ?decaprenyl diphosphate (3a)(synthase or synthatase)**

```
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'LIFESCI'
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'BIOTECHDS'
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'NTIS'
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'ESBIOBASE'
L1          166 ?DECAPRENYL DIPHOSPHATE (3A)(SYNTHASE OR SYNTHATASE)
Left truncation is not valid in the specified search field in the
specified file.  The term has been searched without left truncation.
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you
used a truncation symbol after a punctuation mark, the system may
interpret the truncation symbol as being at the beginning of a term.
Implied proximity is used in search fields indexed as single words,
for example, the Basic Index.

=> s ?decaprenyl diphosphate synthase
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'LIFESCI'
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'BIOTECHDS'
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'NTIS'
LEFT TRUNCATION IGNORED FOR '?DECAPRENYL' FOR FILE 'ESBIOBASE'
L2          158 ?DECAPRENYL DIPHOSPHATE SYNTHASE
Left truncation is not valid in the specified search field in the
specified file.  The term has been searched without left truncation.
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you
used a truncation symbol after a punctuation mark, the system may
interpret the truncation symbol as being at the beginning of a term.
Implied proximity is used in search fields indexed as single words,
for example, the Basic Index.

=> s decaprenyl diphosphate synthase
L3           56 DECAPRENYL DIPHOSPHATE SYNTHASE

=> s l3 and saitoella
L4            3 L3 AND SAITOELLA

=> d 1-3

L4   ANSWER 1 OF 3  BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
     Full Text

AN    2001-07777  BIOTECHDS
TI    DNA encoding a protein having decaprenyl-diphosphate-synthase
      activity and microorganism for producing coenzyme-Q10;
         production in Escherichia coli using plasmid pNTSai
AU    Matsuda H; Kawamukai M; Yajima K; Ikenaka Y; Hasegawa J; Takahashi S
PA    Kaneka
LO    Osaka, Japan.
PI    WO 2001014567 1 Mar 2001
AI    WO 2000-JP5659 24 Aug 2000
PRAI  JP 1999-237561 24 Aug 1999
DT    Patent
LA    Japanese
OS    WPI: 2001-202937 [20]

L4   ANSWER 2 OF 3  HCAPLUS  COPYRIGHT 2003 ACS
     Full Text  Citing References

AN    2002:888927  HCAPLUS
DN    137:380999
TI    DNA, cDNA and protein sequences of eukaryotic long-chain prenyl
      diphosphate synthase and their uses for biosynthesis of coenzyme Q9 and
```

Q10
IN Matsuda, Hideyuki; Kawamukai, Makoto; Yajima, Kazuyoshi
PA Kaneka Corporation, Japan
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2002092811 | A1 | 20021121 | WO 2002-JP4566 | 20020510 |

W: CA, CZ, JP, NO, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

PRAI JP 2001-140977 A 20010511
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS


AN 2001:152852 HCAPLUS
DN 134:190019
TI Coenzyme Q10 biosynthesis using **Saitoella decaprenyl diphosphate synthase**
IN Matsuda, Hideyuki; Kawamukai, Makoto; Yajima, Kazuyoshi; Ikenaka, Yasuhiro; Hasegawa, Junzo; Takahashi, Satomi
PA Kaneka Corporation, Japan
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2001014567 | A1 | 20010301 | WO 2000-JP5659 | 20000824 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

| | | | | | |
|---|---|---|---|---|---|
| | JP 2001061478 | A2 | 20010313 | JP 1999-237561 | 19990824 |
| | EP 1123979 | A1 | 20010816 | EP 2000-954944 | 20000824 |

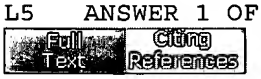
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO

| | | | | | |
|---|---|---|---|---|---|
| | NO 2001001995 | A | 20010530 | NO 2001-1995 | 20010423 |
| PRAI | JP 1999-237561 | A | 19990824 | | |
| | WO 2000-JP5659 | W | 20000824 | | |

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> **s saitoella and prenyl**
L5 1 SAITOELLA AND PRENYL

=> **d**

L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS


AN 2002:888927 HCAPLUS
DN 137:380999

TI DNA, cDNA and protein sequences of eukaryotic long-chain **prenyl** diphosphate synthase and their uses for biosynthesis of coenzyme Q9 and Q10
IN Matsuda, Hideyuki; Kawamukai, Makoto; Yajima, Kazuyoshi
PA Kaneka Corporation, Japan
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2002092811 | A1 | 20021121 | WO 2002-JP4566 | 20020510 |

W: CA, CZ, JP, NO, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR
PRAI JP 2001-140977 A 20010511
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> **dis his**

(FILE 'HOME' ENTERED AT 16:56:55 ON 24 JAN 2003)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 16:59:04 ON 24 JAN 2003
L1 166 S ?DECAPRENYL DIPHOSPHATE (3A)(SYNTHASE OR SYNTHATASE)
L2 158 S ?DECAPRENYL DIPHOSPHATE SYNTHASE
L3 56 S DECAPRENYL DIPHOSPHATE SYNTHASE
L4 3 S L3 AND SAITOELLA
L5 1 S SAITOELLA AND PRENYL

=> **log h**

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 19.52 | 20.36 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:04:02 ON 24 JAN 2003

# WEST Search History

DATE: Friday, January 24, 2003

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ* | | | |
| L5 | 6225097 | 5 | L5 |
| L4 | l3 and saitoella | 1 | L4 |
| L3 | $decaprenyl diphosphate (synthetase or synthase) | 37 | L3 |
| L2 | decaprenyl diphosphate synthetase | 5 | L2 |
| L1 | decaprenyl diphosphate syn$ | 17 | L1 |

END OF SEARCH HISTORY

# Search in ENZYME for: decaprenyl diphosphate synthase

## Release 32, August 2003, and updates up to 24-Aug-2003

Please choose one of the following entries:

2.5.1.31 Di-trans-poly-cis-decaprenylcistransferase.
(AN: Di-trans-poly-cis-undecaprenyl-diphosphate synthase.
Undecaprenyl pyrophosphate synthetase.
Undecaprenyl pyrophosphate synthase.
UPP synthetase.
Undecaprenyl-diphosphate synthase.
Bactoprenyl-diphosphate synthase.)